PIB-PIB-PL7_PA460B PIB-PIB-PL7_PA460B - A460 Digital diesel electronics - V.7, VIN: VZ30176

ISTA system version	**4.39.20.24455**	Data version	**R4.39.20**	Programming data	**-**
VIN	**VZ30176**	Vehicle	**2'/F22/Coupe/225d/N47,-/AUTO/ECE/RL/2015/01**		
Int.lev.works	**-**	Int.lev.(cur.)	**-**	Int.lev.(tar.)	**-**
Mileage	**-**				

Connector location views

Number	X-pin, colour	Description
A462*1B	40-pin, black	Component connector Digital diesel electronics
X20002	8-pin, black	Component connector Digital diesel electronics
X20006	12-pin, black	Component connector Digital diesel electronics
X20008	59-pin, black	Component connector Digital diesel electronics
X20009	54-pin, grey	Component connector Digital diesel electronics

Pin assignments at plug connector A462*1B

Pin	Type	Description /Signal type	Connection /Measuring information
1	–	Not used	
2	–	Not used	
3	–	Not used	
4	E/A	FlexRay bus signal	Front Electronic Module
5	E/A	FlexRay bus signal	Front Electronic Module
6	E	Signal Clutch module	Clutch module
7	–	Not used	
8	–	Not used	
9	–	Not used	
10	A	Activation Electric fan	Electric fan
11	–	Not used	
12	E	Supply, terminal 15	Front Electronic Module
13	E	Wake-up signal, terminal 15	Connector, terminal 15 wake-up signal
14	–	Not used	
15	–	Not used	
16	A	Speed signal	Diagnosis socket
17	A	Activation Fuel filter heating	Fuel filter heating
18	M	Ground Accelerator pedal module	Accelerator pedal module
19	E/A	PT-CAN bus signal	PT-CAN bus connection
20	E/A	PT-CAN bus signal	PT-CAN bus connection
21	E/A	PT-CAN bus signal	PT-CAN2 bus connection
22	E/A	PT-CAN bus signal	PT-CAN2 bus connection
23	M	Ground Accelerator pedal module	Accelerator pedal module
24	–	Not used	
25	A	Engine start signal	DC/DC converter
26	M	Ground Zero-gear sensor	Zero-gear sensor
27	–	Not used	
28	E	Signal Accelerator pedal module	Accelerator pedal module
29	E	Signal Accelerator pedal module	Accelerator pedal module
30	A	Supply Zero-gear sensor	Zero-gear sensor
31	E	Signal Zero-gear sensor	Zero-gear sensor
32	–	Not used	
33	A	Activation Cut-out relay, electric fan	Cut-out relay, electric fan
34	–	Not used	
35	–	Not used	
36	–	Not used	
37	E/A	LIN bus signal	Intelligent battery sensor
38	A	Supply Accelerator pedal module	Accelerator pedal module
39	A	Supply Accelerator pedal module	Accelerator pedal module
40	M	Ground Engine breather heater	Engine breather heater

Pin assignments at plug connector X20002

Pin	Type	Description /Signal type	Connection /Measuring information
1	–	Not used	
2	A	Activation DDE main relay	DDE main relay
3	M	Ground	Ground point

© Copyright BMW Group - Subject to printing errors, mistakes and technical changes.

Pin	Type	Description /Signal type	Connection /Measuring information
4	E	Supply, terminal 87	Fuse F01
5	M	Ground	Ground point
6	E	Supply, terminal 87	Fuse F01
7	M	Ground	Ground point
8	E	Supply, terminal 87	Fuse F01

Pin assignments at plug connector X20006

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Activation Injector 4	Injector 4
2	A	Activation Injector 1	Injector 1
3	M	Ground Injector 4	Injector 4
4	–	Not used	
5	–	Not used	
6	A	Activation Injector 2	Injector 2
7	M	Ground Injector 3	Injector 3
8	M	Ground Injector 2	Injector 2
9	–	Not used	
10	A	Activation Injector 3	Injector 3
11	–	Not used	
12	M	Ground Injector 1	Injector 1

Pin assignments at plug connector X20008

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Activation Throttle valve	Throttle valve
2	A	Activation Throttle valve	Throttle valve
3	A	Activation Swirl flap actuator	Swirl flap actuator
4	A	Activation Swirl flap actuator	Swirl flap actuator
5	–	Not used	
6	–	Not used	
7	–	Not used	
8	–	Not used	
9	–	Not used	
10	–	Not used	
11	–	Not used	
12	–	Not used	
13	–	Not used	
14	A	Activation Preheating control unit	Preheating control unit
15	E/A	LIN bus signal	Preheating control unit
16	E/A	LIN bus signal	Alternator
17	–	Not used	
18	–	Not used	
19	E	Signal Crankshaft sensor	Crankshaft sensor
20	A	Supply Crankshaft sensor	Crankshaft sensor
21	M	Ground Crankshaft sensor	Crankshaft sensor
22	E	Signal Hot-film air mass meter	Hot-film air mass meter
23	E	Signal Hot-film air mass meter	Hot-film air mass meter
24	M	Ground Hot-film air mass meter	Hot-film air mass meter
25	–	Not used	
26	–	Not used	
27	–	Not used	
28	A	Supply Boost pressure actuator	Boost pressure actuator
29	E	Signal Oil pressure switch	Oil pressure switch
30	M	Ground Boost pressure actuator	Boost pressure actuator
31	–	Not used	
32	–	Not used	
33	E	Signal Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
34	E	Signal Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
35	M	Ground Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
36	E	Signal Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
37	E	Signal Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
38	M	Ground Throttle valve	Throttle valve
39	E	Signal Throttle valve	Throttle valve
40	A	Supply Throttle valve	Throttle valve

© Copyright BMW Group - Subject to printing errors, mistakes and technical changes.

Pin	Type	Description /Signal type	Connection /Measuring information
41	A	Activation Changeover valve, low-pressure compressor bypass flap	Changeover valve, low-pressure compressor bypass flap
42	–	Not used	
43	–	Not used	
44	E	Signal, temperature sensor	Exhaust-gas temperature sensor after exhaust-gas recirculation cooler
45	E	Signal, temperature sensor	Fuel pressure/temperature sensor
46	M	Ground Fuel pressure/temperature sensor	Fuel pressure/temperature sensor
47	A	Supply Fuel pressure/temperature sensor	Fuel pressure/temperature sensor
48	E	Signal, pressure sensor	Fuel pressure/temperature sensor
49	M	Ground Charge-air temperature sensor	Charge-air temperature sensor
50	E	Signal Charge-air temperature sensor	Charge-air temperature sensor
51	–	Not used	
52	–	Not used	
53	E	Signal, temperature sensor	Exhaust-gas temperature sensor after exhaust-gas recirculation cooler
54	A	Supply Boost pressure sensor	Boost pressure sensor
55	E	Signal Boost pressure sensor	Boost pressure sensor
56	M	Ground Boost pressure sensor	Boost pressure sensor
57	M	Ground Exhaust recirculation actuator	Exhaust recirculation actuator
58	E	Signal Exhaust recirculation actuator	Exhaust recirculation actuator
59	A	Supply Exhaust recirculation actuator	Exhaust recirculation actuator

Pin assignments at plug connector X20009

Pin	Type	Description /Signal type	Connection /Measuring information
1	A	Activation Rail pressure control valve	Rail pressure control valve
2	A	Activation Volume control valve	Volume control valve
3	A	Activation Exhaust recirculation actuator	Exhaust recirculation actuator
4	A	Activation Exhaust recirculation actuator	Exhaust recirculation actuator
5	E	Signal Exhaust backpressure sensor	Exhaust backpressure sensor
6	A	Supply Exhaust backpressure sensor	Exhaust backpressure sensor
7	M	Ground Exhaust backpressure sensor	Exhaust backpressure sensor
8	E	Signal Exhaust temperature sensor before catalytic converter	Exhaust temperature sensor before catalytic converter
9	M	Ground Exhaust temperature sensor before catalytic converter	Exhaust temperature sensor before catalytic converter
10	E	Signal Exhaust gas temperature sensor before particle filter	Exhaust gas temperature sensor before particle filter
11	M	Ground Exhaust gas temperature sensor before particle filter	Exhaust gas temperature sensor before particle filter
12	E	Signal Oil condition sensor	Oil condition sensor
13	–	Not used	
14	A	Activation Electric changeover valve, bypass valve, EGR cooler	Electric changeover valve, bypass valve, EGR cooler
15	M	Ground Oil condition sensor	Oil condition sensor
16	–	Not used	
17	–	Not used	
18	–	Not used	
19	A	Activation Changeover valve, compressor bypass plate	Changeover valve, compressor bypass plate
20	–	Not used	
21	A	Activation Pressure converter, wastegate valve	Pressure converter, wastegate valve
22	A	Activation Pressure converter, turbine control flap	Pressure converter, turbine control flap
23	–	Not used	
24	–	Not used	
25	E	Signal Exhaust pressure sensor before turbocharger	Exhaust pressure sensor before turbocharger
26	–	Not used	
27	–	Not used	
28	–	Not used	
29	M	Ground Coolant temperature sensor	Coolant temperature sensor
30	E	Signal Coolant temperature sensor	Coolant temperature sensor
31	–	Not used	
32	–	Not used	
33	A	Supply Rail pressure sensor	Rail pressure sensor

© Copyright BMW Group - Subject to printing errors, mistakes and technical changes.

Pin	Type	Description /Signal type	Connection /Measuring information
34	E	Signal Rail pressure sensor	Rail pressure sensor
35	M	Ground Rail pressure sensor	Rail pressure sensor
36	E	Signal Camshaft sensor	Camshaft sensor
37	M	Ground Camshaft sensor	Camshaft sensor
38	E	Signal Boost pressure actuator	Boost pressure actuator
39	–	Not used	
40	–	Not used	
41	–	Not used	
42	–	Not used	
43	–	Not used	
44	E	Signal Hot-film air mass meter	Hot-film air mass meter
45	E	Signal Boost pressure actuator	Boost pressure actuator
46	A	Activation Boost pressure actuator	Boost pressure actuator
47	–	Not used	
48	–	Not used	
49	A	Supply Swirl flap actuator	Swirl flap actuator
50	E	Signal Swirl flap actuator	Swirl flap actuator
51	M	Ground Swirl flap actuator	Swirl flap actuator
52	A	Supply Exhaust pressure sensor before turbocharger	Exhaust pressure sensor before turbocharger
53	–	Not used	
54	M	Ground Exhaust pressure sensor before turbocharger	Exhaust pressure sensor before turbocharger

© Copyright BMW Group - Subject to printing errors, mistakes and technical changes.